~~What is claimed is:~~CLAIMS

~~1. A chip measurement system for chips on a game table in a game hall, the chip measurement system comprising:~~

~~an image recording device that records states of chips to be measured, which are stacked with a predetermined thickness in a game played on the game table, as an image using a camera;~~

~~a plurality of height measurement cameras that obtain images of the stacked chips to be measured from different positions or angles;~~

~~a chip number measuring device that obtains a height of the chips to be measured from each viewing angle toward the chips to be measured with respect to a horizontal or vertical direction, obtained from the plurality of height measurement cameras, using the plurality of height measurement cameras and calculates and obtains a number of the chips to be measured; and~~

~~a management control device that controls the image recording device and the chip number measuring device.~~

~~2. The chip measurement system according to claim 1, further comprising:~~

~~a chip total value measuring device that calculates and obtains a total value of the stacked chips to be measured from the number of the chips to be measured obtained from the chip number measuring device; and~~

~~a management control device that controls the chip total value measuring device in addition to the image recording device~~

~~and the chip number measuring device.~~

~~3. The chip measurement system according to claim 1, further comprising:~~

~~a chip total value measuring device that calculates and obtains a total value of the stacked chips to be measured by identifying the number of the chips to be measured obtained from the chip number measuring device and a type of each of the chips from an image analysis result of the image recording device; and~~

~~a management control device that controls the chip total value measuring device in addition to the image recording device and the chip number measuring device.~~

~~4. The chip measurement system according to any one of claims 1 to 3, wherein~~

~~the management control device has a configuration capable of grasping a position, a type, and a number of chips to be measured bet by each player using the image recording device and grasping a total value of all the chips bet by the respective players.~~

~~5. The chip measurement system according to any one of claims 1 to 4, further comprising:~~

~~a chip tray camera that obtains an image of a chip tray of a dealer of the game table; and~~

~~a chip measuring device that grasps a total value of chips~~

~~in the chip tray from the image obtained by the chip tray camera.~~

~~6. The chip measurement system according to any one of claims 1 to 5, further comprising~~

~~a win or lose result determination device that obtains a win or lose result of each game on the game table,~~

~~wherein the management control device has a configuration capable of grasping a total value of chips bet by a losing player in the game from a position, a type and a number of the chips bet by the losing player based on information obtained by the win or lose result determination device.~~

~~7. The measurement system of the chips to be measured according to any one of claims 1 to 6, wherein~~

~~the management control device grasps the total value of the chips to be measured in the chip tray of the dealer of the game table, adds or subtracts an increased or decreased value of chips to be measured in the game, calculated based on the positions, types, and each number of chips to be measured bet by all the players in the game and the win or lose result of the game obtained by the win or lose result determination device to or from the total value of the chips to be measured in the chip tray as a measurement target before settlement of each game, compares a total value of chips to be measured that needs to be present in the chip tray as the measurement target before settlement when ending the game with an actual total value of chips to be measured in the chip tray as the measurement target~~

~~when ending the game obtained using the image recording device, and determines whether or not there is a difference between the total value that needs to be present and the actual total value.~~

~~8. The chip measurement system according to any one of claims 1 to 7, comprising~~

~~a plurality of the image recording devices~~

~~wherein the chip total value measuring device calculates the total value of chips to be measured using images of the stacked chips to be measured which are taken from different positions or angles of the respective image recording devices.~~

~~9. The chip measurement system according to any one of claims 1 to 8, wherein~~

~~the chip to be measured has a configuration in which a laminated structural body including a plurality of plastic layers is configured by laminating at least a colored layer and a white layer or a light color layer and a stripe pattern in a laminating direction is formed on a side face so as to enable a type of a gaming chip to be specified by the colored layer, and have a layer structure obtained by forming a printed layer indicating a type of a gaming chip further on upper and lower faces of the laminated structural body and causing thermocompression bonding between the respective layers.~~

~~10. The chip measurement system according to claim 9, wherein~~

~~at least one layer of among plurality of plastics layers~~

~~is a heavy layer containing metal powder for weight increase in the layer.~~

~~11. The chip measurement system according to claim 9, wherein a white layer or a light color layer is provided on both sides of the colored layer to be sandwiched therebetween such that thicknesses of an upper layer and a lower layer of the white layer or the light color layer provided to sandwich the colored layer are different from each other.~~

1. A system comprising:

a game table in which a plurality of placement areas on which a chip is to be placed is arranged in a longitudinal direction and a lateral direction;

a first camera configured to capture a chip stack consisting of one chip or a plurality of chips placed on the placement area from obliquely above to generate a first image;

a second camera different from the first camera and configured to capture the chip stack consisting of the one chip or the plurality of chips placed on the placement area from obliquely above to generate a second image; and

a management control device configured to perform image recognition on the first image and the second image using at least partially deep learning technology, and whereby determine, for the same chip stack, the placement area on which the chip stack is placed, a number of chip or chips consisting of the chip stack, and a type of chip or types of chips consisting of the chip stack; and wherein

at least one of the first camera and the second camera is configured to capture a plurality of chip stacks placed on the same placement area or adjacent placement areas, and the first camera and the second camera are installed so as to be able to capture the same chip stack from different directions, and whereby the management control device is configured to, by being based on one image of the first image and the second image wherein recognition result which is more reliable and has less effect of a blind spot can be obtained based on the one image by the image recognition using the at least partially deep learning technology, be able to determine the placement area on which the chip stack is placed, the number of chip or chips consisting of the chip stack, and the type of chip or types of chips consisting of the chip stack, even in a case where a part of the one chip or the plurality of chips consisted of the chip stack is invisible due to the blind spot, with including the chip whose part is invisible, for each of a plurality of chip stacks.

2. The system according to claim 1, wherein the plurality of placement areas includes at least a player area and a bunker area provided in the longitudinal direction for each of a plurality of player positions provided in the lateral direction.

3. The system according to claim 1, wherein the adjacent placement areas of the plurality of placement areas includes

adjacent placement areas contiguous with each other by being divided by a single line.

4. The system according to claim 1, wherein at least any of the first camera and the second camera is installed at a pole provided in the game table.

5. The system according to claim 1, wherein at least one of the first camera and the second camera is installed so as to be able to capture an upper surface of an uppermost chip in the chip stack.

6. The system according to claim 1, wherein both the first camera and the second camera are installed so as to be able to capture an upper surface of an uppermost chip in the chip stack.

7. The system according to claim 1, wherein the management control device is configured to identify a predetermined portion of the chip in the first image and the second image.

8. The system according to claim 1, wherein the management control device is configured to determine an amount of the chip stack based on determination results of the placement area on which the chip stack is placed, the number of chip or chips consisting of the chip stack, and the type of chip or types of chips consisting of the chip stack.

9. The system according to claim 1, wherein at least one of the first camera and the second camera, or a third camera different from the first camera and the second camera is configured to capture chips in a chip tray of the game table.

10. The system according to claim 9, wherein the management control device is configured to recognize a total amount of chip or chips in the chip tray, and determines whether or not an increase and decrease in the total amount of chip or chips in the chip tray after collection and redemption of the chip or chips in a game correspond to an amount which should be collected and an amount which should be redeemed.

11. The system according to claim 10, wherein the management control device is configured to determine the amount which should be collected and the amount which should be redeemed based on the position, the type or types, and the number of the chip stack placed by a player and a game result.

12. The system according to claim 1, wherein at least one of the first camera and the second camera is configured to obtain a video by continuously generating images.

13. The system according to claim 12, wherein the management control device is configured to give the video an index or time and record it so as to be able to identify a scene in which a fraud occurred, when the fraud occurred.